

## **House Bill 223 Supporters**

*"Partnerships between industry and the public sector are a key to creating sustainable ecosystems and providing for economic development opportunities in Utah while leading by example of a sustainable future." - AVF Energy*

*"Hydrogen is essential to maximize the adoption of electric vehicle expansion in all transportation sectors; increasing the capacity of battery electric mobility with complimentary power production and, critically, storage." - Utah Clean Cities*

*"There is a need to put hydrogen in parity with the other energy sources that receive special consideration from the state of Utah. Representative Ballard's legislation does just that and opens the way for further innovation and a better quality of life for all the citizens of Utah." - New Car Dealers of Utah*

*"UIPA is in support of Rep. Ballard's Hydrogen Fuel Incentive Amendments because of our pledge to be a part of reducing air pollution while continuing to develop advanced logistics and goods movement systems to diversify Utah's economy by supporting best available and developing technologies." - Utah Inland Port Authority*

*"HB 223 gives hydrogen production the same support as solar, wind, and geothermal energy currently have in Utah. Bringing equality to these areas allows for commercial entities to decide which technologies are best for them and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents." - Western States Hydrogen Alliance*

*"We believe that Utah has always been a leader when it comes to planning for the future, and this is a great opportunity to lead once again." - Utah Clean Cities*

### **List of Supporters**

- New Car Dealers of Utah
- Dominion Energy
- AVF Energy
- Ballard Power Systems
- Utah Inland Port Authority
- Utah Mining Association
- Utah Petroleum Association
- Air Quality Policy Advisory Board
- Commercial Real Estate Group
- Utah Clean Cities
- Western States Hydrogen Alliance
- Plug Power
- Power Innovations
- Golden Gate Zero Emission Marine
- Zero Emission Advisors
- The Protium Company
- Renewable Innovations



February 17, 2021

To Whom it May Concern,

The mission of the Utah Clean Cities Coalition is to advance the energy, economic, and environmental security of the United States by supporting local decisions to adopt practices that reduce the use of petroleum in the transportation sector. The advancement of hydrogen technologies in Utah is one of the most transformative advanced fuel strategies for both transportation and clean energy storage. Utah Clean Cities strongly supports House Bill 223.



**Address**

Salt Lake City & County Building  
451 South State Street Suite 415  
Salt Lake City, UT 84111

**Web**

[utahcleancities.org](http://utahcleancities.org)

House Bill 223 would add hydrogen to the existing list of alternative fuels in our state-wide portfolio of alternative and advanced fuels. Utah's current advanced-fuel offerings include: natural gas; renewable natural gas; autogas propane; electric; renewable electric and now we can add hydrogen. The inclusion of hydrogen along with other state-of-the-art fuels within the tax credit portfolio ensures the expansion of hydrogen in our state and region. Promoting cleaner fuels that are zero emissions at the tailpipe and sourced and refined with renewables will ensure a strong Utah economy and healthier communities.

Hydrogen is essential to maximize the adoption of electric vehicle expansion in all transportation sectors; increasing the capacity of battery electric mobility with complimentary power production and, critically, storage. With coal serving as the major source of power generation in Utah, hydrogen technology is a key part of the right transitional movement.

As electric vehicles become widespread, the sourcing of electricity must become cleaner and renewable. Hydrogen development, production and wide-scale use should be Utah's infrastructure focus and strategy. This work now will ensure Utahans benefit for many generations from sound decisions made today to grow our resilient resources such as hydrogen. Utah is positioned to lead the nation on this endeavor for the cleanest resources to fuel our future.

Utah Clean Cities is proud to be a supporter of House Bill 223. We strongly encourage that it be passed into law in the 2021 General Session. We believe that Utah has always been a leader when it comes to planning for the future and this is a great opportunity to lead once again.

Sincerely,

**Utah Clean Cities**  
Tammie Bostick  
*Executive Director*

Utah Clean Cities Executive Board  
**Dr. David Christensen:** Innovation Director, ASPIRE,  
Utah Clean Cities Board President  
**Carolyn Gonot:** Executive Director,  
Utah Transit Authority,  
Utah Clean Cities Board Vice President  
**Dr. Royal DeLegge:** Executive Director,  
Salt Lake County Environmental Health Dept.  
Utah Clean Cities Board Secretary

Utah Clean Cities Board of Trustees  
**Debbie Lyons:** Deputy Director, Salt Lake City  
Sustainability  
**Hanko Klesner:** CEO, Packsize International  
Leaders for Clean Air  
**Scott Brandeberry:** CEO, Lancer Energy & Fleet Saver  
**Matt Stolberg:** CEO, ACE Disposal and Recycling  
**Steve Handy:** Utah State Representative  
**James Campbell:** Director, Innovation and  
Sustainability Policy, PacificCorp  
**Brett Brown:** Manager of Operations,  
Dominion Energy  
**Annie Schneider:** Sr. Program Specialist,  
Transportation, Governor's Office of Energy  
Development  
**Jack Hedge:** Executive Director,  
Utah Inland Port Authority  
**Brent Chamberlain:** Kane County Commissioner  
EV2ION Steering Committee, Kane County  
**Teri Newell:** P.E., Deputy Director,  
Utah Department of Transportation





## UTAH INLAND PORT AUTHORITY

### **Statement of Support – Rep. Ballard Hydrogen Fuel Incentive Amendments**

Utah Inland Port Authority (UIPA) is responsible to implement strategies using best available technologies to mitigate environmental impacts while enhancing and building Utah's logistics and goods movement systems. Keeping Utah's economy diverse and strong is interdependent with the Authority's mission.

From the days of the pioneers Utah has a tradition of planning for the future. One area where this has been demonstrated is the Legislature's commitment to incentivize alternative fuels and energy resources. Although the Authority is impartial to commodity type, we are laser focused on next generation opportunity.

UIPA is in support of Rep. Ballard's Hydrogen Fuel Incentive Amendments because of our pledge to be a part of reducing air pollution while continuing to develop advanced logistics and goods movement systems to diversify Utah's economy by supporting best available and developing technologies.

Jack C. Hedge  
Director Executive

Jill Flygare  
Chief Operating Officer





February 17, 2021

Representative Carl R. Albrecht  
Chair, House Public Utilities, Energy, and Technology  
Committee 1150 State Office Building  
Salt Lake City, Utah 84114

**Re:** HB 223: Alternative Fuel Incentives Amendment

Dear Chair Albrecht,

Plug Power, Inc. supports House Bill (HB) 223 introduced by Representative Ballard.

Plug Power is building the hydrogen economy as the leading provider of comprehensive hydrogen fuel cell (HFC) turnkey solutions. The Company's innovative technology powers electric motors with hydrogen fuel cells amid an ongoing paradigm shift in the power, energy, and transportation industries to address climate change and energy security, while providing efficiency gains and meeting sustainability goals. Plug Power created the first commercially viable market for hydrogen fuel cell (HFC) technology. As a result, the Company has deployed over 40,000 fuel cell systems for e-mobility, more than anyone else in the world, and has become the largest buyer of liquid hydrogen, having built and operated a hydrogen highway across North America. Plug Power delivers a significant value proposition to end-customers, including meaningful environmental benefits, efficiency gains, fast fueling, and lower operational costs. Plug Power's vertically-integrated GenKey solution ties together all critical elements to power, fuel, and provide service to customers such as Amazon, BMW, The Southern Company, Carrefour, and Walmart. The Company is now leveraging its know-how, modular product architecture and foundational customers to rapidly expand into other key markets including zero-emission on-road vehicles, robotics, and data centers.

We have worked closely with the Western States Hydrogen Alliance and Representative Ballard to provide timely information on the accelerating growth of our hydrogen fuel cell based enterprise. The chart of future growth included in Representative Ballard's presentation is based on existing backlog with existing customers.

**Corporate Headquarters**

968 Albany Shaker Road  
Latham, NY 12110  
518.782.4004



We stand in support of Representative Ballard's bill, HB 223, for a multitude of reasons. This bill brings consistency to the zero-emission vehicle space and acknowledges that a variety of fuels need to be used to achieve a carbon-neutral future. This bill also brings parity to renewable energy production. HB 223 gives hydrogen production the same support as solar, wind, and geothermal energy currently have in Utah. Bringing equality to these areas allows for commercial entities to decide which technologies are best for them and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents.

With the passage of HB 223, Utah has a head start in leading the development of a lucrative hydrogen economy in-state. We strongly support HB 223 due to the parity it brings to the energy space and urge you to do the same.

You may reach me at (214) 334-5774 and via email at [acioffi@plugpower.com](mailto:acioffi@plugpower.com)

Sincerely,

A handwritten signature in blue ink, appearing to read "A. J. Cioffi".

Al Cioffi  
Strategic Business Development





To Whom It May Concern,

AVF Energy is a Green Hydrogen developer in the State of Utah. We work closely with the Governor's Office of Energy Development and Representative Ballard in supporting Renewable Energy Projects and legislation in the State.

The expansion of policy initiatives to advance cleaner fuels in California, the International Maritime Organization and across the Western United States continues to create demand pressure for new, alternative fuels. Additionally, major worldwide transportation, distribution and shipping corporations are shifting to the use of renewable fuel to improve regional air quality and environmental outcomes.

AVF Energy supports Representative Ballard and Utah's goal of growing Renewable energy production and exports especially as Utah is the connection between Western Sea Ports and Midwest and Eastern Markets.

Partnerships between industry and the public sector are a key to creating sustainable ecosystems and providing for economic development opportunities in Utah while leading by example of a sustainable future.

Regards

Jimmy Seear

Co-Founder AVF Energy LLC





Jorden R. Kemper  
Founding Partner  
6517 California St.  
San Francisco, CA 94121  
(805) 551-6246

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February 16, 2021

Representative Carl R. Albrecht  
Chair, House Public Utilities, Energy, and Technology Committee  
1150 State Office Building  
Salt Lake City, Utah 84114

RE: HB 223: Alternative Fuel Incentives Amendment

Dear Chair Albrecht,

Zero Emission Advisors (ZEA) supports House Bill (HB) 223 introduced by Representative Ballard. Our organization is comprised of industry experts well versed in the commercial, economic & technical aspects relating to the deployment of hydrogen production, fuel cell and battery-electric technologies in the commercial and industrial sectors, including fuel cell electric vehicles in hard-to-electrify applications like trucking, busing, locomotive, aviation, maritime, and off-road equipment. We have been solicited for input regarding similar legislation and regulatory matters from members of the state government of California as well as foreign national governments due to our expertise in the field.

We stand in support of Representative Ballard's bill, HB 223, for a multitude of reasons. This bill brings consistency to the zero-emission vehicle space and acknowledges that a variety of fuels need to be used to achieve a carbon-neutral future. This bill also brings parity to renewable energy production. HB 223 gives hydrogen production the same support as solar, wind, and geothermal energy currently have in Utah. Allowing for a more technology neutral approach through legislative parity allows the markets to utilize the best technology for a given application. Bringing equality to these areas allows for commercial entities to decide which technologies are best for them and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents.

With the passage of HB 223, Utah has a head start in leading the development of a lucrative hydrogen economy in-state. We strongly support HB 223 due to the parity it brings to the energy space and urge you to do the same. You may reach me at (805) 551-6246 and via email at [jorden@zeroemissionadvisors.com](mailto:jorden@zeroemissionadvisors.com).

Sincerely,

*Jorden Kemper*

Jorden Robert Kemper  
Founding Partner  
Zero Emission Advisors





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SUBJECT: HB 223: Alternative Fuel Incentives Amendment

TO: Representative Carl R. Albrecht  
CHAIR  
HOUSE PUBLIC UTILITIES, ENERGY, AND TECHNOLOGY COMMITTEE  
1150 STATE OFFICE BUILDING  
SALT LAKE CITY, UT 84114-1205

February 17, 2021

Dear Chair Albrecht,

The Protium Company supports House Bill (HB) 223 introduced by Representative Ballard. Our company invents and manufactures custom liquid hydrogen equipment to fuel clean and reliable fuel-cell electric powerplants for electric vehicles. Liquid hydrogen-electric propulsion provides the reliability of electric power and the endurance of fossil-fueled engines, while reducing noise and maintenance. Our technologies accelerate the electrification of vehicles, especially in traditionally hard-to-electrify sectors like locomotive, aviation, maritime, and heavy industrial / mining equipment. By evolving the way we move people and goods with hydrogen and electricity, we save customers money, increase reliability, and enhance quality of life.

We stand in support of Representative Ballard's bill, HB 223, for a multitude of reasons. This bill brings consistency to the zero-emission vehicle space and acknowledges that a variety of fuels are required to achieve a carbon-neutrality, especially in heavy commercial / industrial vehicles. This bill also gives hydrogen production the same support as solar, wind, and geothermal energy currently have in Utah. Bringing equality to these areas allows for commercial entities to decide which technologies are best for their use case, and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents.

With the passage of HB 223, Utah has a head start in leading the development of a lucrative hydrogen economy in-state. We strongly support HB 223 due to the parity it brings to the energy space and urge you to do the same.

Sincerely,

Elijah Shoemake, CCO

The Protium Company

(509) 750-8557

[elijah.shoemake@protium.aero](mailto:elijah.shoemake@protium.aero)





To whom it may concern;

The New Car Dealers of Utah is very supportive of Representative Ballard's work to help us better understand the value of looking at all fuel sources as a means to improve our personal lives, businesses and community's in Utah. As we look at the various fuel source applications it is very clear at this point at least that there is "no one exclusive source" that can serve the wide range of power needs within our economy. Gas, Diesel, wind, solar, electric, fuel cell and other sources are needed in our present condition and certainly will be part of our future. The goal is to have access to the cleanest, most economical power producing technology as possible and to be as inclusive of all of those sources as we can.

Specifically as it applies to hydrogen, Representative has done a very comprehensive and in-depth analysis of what the possibilities are with hydrogen and its zero emission foot print. The commercial application such as fleets of buses, commercial trucking, ocean ports, inland ports, rail road switching stations and others growing uses of hydrogen makes it a perfect match both environmentally and economically. The private vehicle use of hydrogen is on a slower pace than that of commercial use but once the infrastructure is in place (led by the commercial side), we believe the auto manufacturers will accelerate their production of fuel cell vehicles.

We are appreciative of Representative Ballard's sponsoring HB---- and HB----- that will provide the innovators working with hydrogen the same opportunity as other special fuel providers now doing business in Utah. We urge your support of these two bills

Sincerely,

Craig Bickmore

Executive Director

New Car Dealers of Utah

Summary:

There is a need to put hydrogen in parity with the other energy sources that receive special consideration from the state of Utah. Representative Ballard's legislation does just that and opens the way for further innovation and a better quality of life for all the citizens of Utah.





**Ballard Fuel Cell Systems Inc.**  
20756 High Desert Court, Suite 6  
Bend , OR 97701  
[www.ballard.com](http://www.ballard.com)

BY EMAIL

February 17, 2021

Representative Carl R. Albrecht  
Chair, House Public Utilities, Energy, and Technology Committee  
1150 State Office Building  
Salt Lake City, Utah 84114

RE: HB 223: Alternative Fuel Incentives Amendment

Dear Chair Albrecht,

Ballard Fuel Cell Systems supports House Bill (HB) 223 introduced by Representative Ballard. Our company was formed 42 years ago by Geoffry Ballard (no relation to Representative Ballard) to provide a clean alternative to the combustion engine. Now the world leader in heavy duty PEM fuel cells, we have powered thousands of zero-emissions vehicles globally, and fuel cell electric buses powered by our technology are becoming fully commercialized and the technology of choice for zero emissions buses by many transit agencies in California, and an increasing number of locations across the US. We now see demand for fuel cell electric applications in trucking, rail, maritime, and stationary power, which will rapidly require unprecedented volumes of hydrogen as a clean energy fuel source.

We stand in support of Representative Ballard's bill, HB 223, to bring consistency to the zero-emission vehicle space, and acknowledge the variety of fuels need to be used to achieve a carbon-neutral future. This bill also brings parity to renewable energy production and use, allowing commercial entities to decide which technologies are best for them and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents.

With the passage of HB 223, Utah has a head start in leading the development of a lucrative hydrogen economy in-state. We strongly support HB 223 and urge you to do the same. Please feel free to contact me at any time at (805) 705 0716 or [tim.sasseen@ballard.com](mailto:tim.sasseen@ballard.com) with any questions or for further information on our work and our support for this bill.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tim Sasseen", is positioned above the printed name.

Tim Sasseen  
Market Development Manager, US, Ballard Fuel Cell Systems





February 16, 2021

Representative Carl R. Albrecht  
Chair, House Public Utilities, Energy, and Technology Committee  
1150 State Office Building  
Salt Lake City, Utah 84114

RE: HB 223: Alternative Fuel Incentives Amendment

Dear Chair Albrecht,

The Western States Hydrogen Alliance (WSHA) supports House Bill (HB) 223 introduced by Representative Ballard. Our organization is comprised of original equipment manufacturers, technology providers, and public entities that are focused on the accelerated deployment of hydrogen and fuel cell technologies in the commercial and industrial sectors, including fuel cell electric vehicles in hard-to-electrify applications like trucking, busing, locomotive, aviation, maritime, and off-road equipment. We have worked closely with Representative Ballard, Utah government entities, and other affected industries like petroleum and mining, to develop the current form of HB 223 that will enable greater economic activity in the state while avoiding any additional environmental impacts to the state.

We stand in support of Representative Ballard's bill, HB 223, for a multitude of reasons. This bill brings consistency to the zero-emission vehicle space and acknowledges that a variety of fuels need to be used to achieve a carbon-neutral future. This bill also brings parity to renewable energy production. HB 223 gives hydrogen production the same support as solar, wind, and geothermal energy currently have in Utah. Bringing equality to these areas allows for commercial entities to decide which technologies are best for them and helps incentivize a sustainable change that is beneficial for Utah's economic future and the health of its constituents.

With the passage of HB 223, Utah has a head start in leading the development of a lucrative hydrogen economy in-state. We strongly support HB 223 due to the parity it

brings to the energy space and urge you to do the same. You may reach me at (818) 642-8064 and via email at [Roxana@WesternStatesHydrogen.org](mailto:Roxana@WesternStatesHydrogen.org).

Sincerely,

A handwritten signature in black ink, reading "R. Bekemohammadi". The signature is written in a cursive, flowing style.

Roxana Bekemohammadi  
Executive Director  
Western States Hydrogen Alliance





February 16, 2021

Representative Carl R. Albrecht  
Chair, House Public Utilities, Energy, and Technology Committee  
1150 State Office Building  
Salt Lake City, Utah 84114  
RE: HB 223: Alternative Fuel Incentives Amendment

Dear Chair Albrecht,

Golden Gate Zero Emission Marine (GGZEM) supports House Bill (HB) 223 introduced by Representative Ballard. GGZEM is a hydrogen technology company that designs, develops and deploys cutting edge fuel cell power systems.

We stand in support of Representative Ballard's bill, HB 223, for a number of reasons: This bill brings consistency to the zero-emission vehicle space and acknowledges that a variety of fuels need to be used to achieve a carbon-neutral future. This bill also brings parity to renewable energy production. HB 223 gives hydrogen production the same support as solar, wind, and geothermal energy currently have in the State of Utah. Leveling the playing field in these areas allows for commercial entities to decide which technologies are best for their specific use case and ultimately sets the stage for Utah to take advantage of the coming hydrogen "gold rush".

We strongly support HB 223 and urge you to do the same.

Sincerely,

John M Motlow  
Executive Vice President  
jmotlow@ggzeromarine.com

